AMPEREX TRANSMITTING TUBE 276-A

R.F. Power Amplifier, Oscillator, A.F. Power Amplifier, Modulator

MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

A.F. Power Amplifier and Modulator—Class A

	Maximum Rating per Tube	Typical Operation One Tube	
A.C. Filament Voltage		10	10
D.C. Plate Voltage	1250	1000	1200
D.C. Grid Voltage		55	—70
Peak A.F. Grid Voltage	_	50	65
D.C. Plate Current (ma.)	_	75	80
Plate Dissipation (watts)	100	75	96
Load Resistance (ohms)	_	4800	7600
Power Output (watts)		14	21
Distortion (% Second			
Harmonic)	-	5	3

A.F. Power Amplifier and Modulator—Class B

GENERAL CHARACTERISTICS Filament Voltage 10-10.5 Filament Current (amps) 3.25 Amplification Factor 12.5 Grid to Plate Transconductance @ 100 ma. 4300 micromhos Direct Interelectrode Capacitances: Grid to Plate 9.0 μμί Grid to Filament 5.5 μμί Plate to Filament 3.5 μμί

Plate Modulated R.F. Power Amplifier Class C—Telephony

(Carrier conditions for use with modulation factor of 1.0)

A.C. Filament Voltage

Peak R.F. Grid Voltage

D.C. Plate Current (ma.)

Plate Input (watts)

Plate Dissipation (watts)

Driving Power (Approx.) (watts) -

D.C. Plate Voltage

D.C. Grid Voltage

D.C. Grid Current

(Approx.) (ma.)

Maximum

1250

-400

175

220

Typical Operation One Tube

10.5

1250

-300

430

166

208

60

10.5

-250

380

170

170

55

10

3.5

	Maximum Rating per Tube	Typical Operation Two Tubes	
A.C. Filament Voltage	_	10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage	_	-72	-90
Load Resistance (ohms			
per tube)	-	1250	1675
Effective Load Resistance			
(Plate to Plate) (ohms)		5000	6700
Zero Signal Plate Current (m	ıα.) —	60	50
Peak A.F. Grid to Grid Volta	rge —	344	380
Max. Signal D.C. Plate	-		
Current (ma.)	210	400	400
Max. Signal Plate Input			
(watts)	260	400	500
Plate Dissipation (watts)	125	-	_
Max. Signal Driving Power			
(Approx.) (watts)	_	4	4.5
Max. Signal Plate Power			
Output (watts)	_	240	320

R.F. Power Amplifier	or Oscil	lator—C	Class (
(watts)	125		125
Frequency Limit for Above Operation (mc.) F.C.C. Broadcast Rating	10	20	10
Francisco Timit for These	_	115	148

R.F. Power Amplifier-Class B-Telephony

(Carrier conditions for use with modulation factor of 1.0)

	Maximum Rating per Tube	Typical Operation One Tube	
A.C. Filament Voltage	_	10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage	_	60	-85
Peak R.F. Grid Voltage	_	100	110
D.C. Plate Current (ma.)	150	140	130
Plate Input (watts)	175	140	162
Plate Dissipation (watts)	125	95	107
D.C. Grid Current			
(Approx.) (ma.)		2.5	1.0
Driving Power at Peak			
Modulation (Approx.) (wa	tts) —	3.5	3.6
Plate Power Output (watts)		45	55
Frequency Limit for Above			
Operation (mc.)	20	30	20
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R.F. Power Amplifier or Oscillator—Class C Telegraphy

Maxin Rați per T		Typical Operation One Tube	
AC. Filament Voltage	_	10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage	-400	-200	250
Peak R.F. Grid Voltage		340	385
D.C. Plate Current (ma.)	210	200	200
Plate Input (watts)	260	200	250
Plate Dissipation (watts)	125	55	80
D.C. Grid Current (Approx.) (ma.) Driving Power (Approx.)	50	15	10
(watts)	-	5	3.5
Plate Power Output (watts)		145	170
Frequency Limit for Above Operation (mc.)	20	30	20

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